

ABSTRACT OF THE DISCLOSURE

A magnetron in accordance with the present invention is configured so that an antenna lead 17 connected to a desired position of an anode segment 2 passes through a magnetic pole piece 7 and a metal cylinder 8 so as not to make contact therewith and is connected to the output portion of the magnetron, and so that the electrical length L_1 of this antenna lead 17 between the opening end of a third harmonic restraint choke 15 and the connection portion of the anode segment 2 is $1/2$ of the wavelength (λ) of the third harmonic, thereby restraining the third harmonic and the side bands of the third harmonic.